

Piedmont Regional Office
JUN 03 2013
RECEIVED

LAND APPLICATION OF BIOSOLIDS
EVERETT PICKETT UPSHAW

KW36 (FIELDS 1 – 10)
KING WILLIAM COUNTY, VIRGINIA
MAY 2013



May 14, 2013

Mr. Seth Mullins
Dept. of Environmental Quality
Piedmont Regional Office
4949-A Cox Road
Glen Allen, VA 23060

Dear Mr. Mullins:

Transmitted herein for your consideration is land application site for Everett Pickett Upshaw (designated as KW 36, (fields 1-10) located in King William County, Virginia. This submission contains strictly site specific information. Please refer to the operations and maintenance manual submitted under separate cover for all non-site specific information.

Do not hesitate to contact me at (804) 443-2170 should you have any questions or require additional information.

Sincerely,

A handwritten signature in black ink that reads "D. Steve McMahon". The signature is written in a cursive, flowing style.

D. Steve McMahon
Sr. Technical Services Director

/cmw



FIELD SUMMARY SHEET

Everett Pickett Upshaw KW36

SYNAGRO FIELD #	GROSS ACRES	NET ACRES	FSA TRACT #	FSA FIELD #	TOPO QUAD	OWNER
36-01	20.0	18.1	955	2 - 5	King & Queen CH	Everett, Joni, & William Upshaw
36-02	21.3	20.8	994	9	King & Queen CH	Everett, Joni, & William Upshaw
36-03	22.2	21.3	994	4	King & Queen CH	Everett, Joni, & William Upshaw
36-04	224.2	220.0	955	None	King & Queen CH	Everett, Joni, & William Upshaw
36-05	198.2	186.3	994	None	King & Queen CH	Everett, Joni, & William Upshaw
36-06	169.4	167.7	994	None	King & Queen CH	Everett, Joni, & William Upshaw
36-07	223.9	170.3	994	None	King & Queen CH	Everett, Joni, & William Upshaw
36-08	35.3	34.4	759	2	King & Queen CH	Everett, Joni, & William Upshaw
36-09	210.5	201.5	759	None	King & Queen CH	Everett, Joni, & William Upshaw
36-10	204.5	203.9	None	None	King & Queen CH	Everett, Joni, & William Upshaw
TOTALS:	1329.5	1244.3				

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 4/15/13 between E.P. UPSHAW referred to here as "Landowner", and Synagro, referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in KING WILLIAM, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
<u>Tax Parcel ID</u>	<u>Tax Parcel ID</u>	<u>Tax Parcel ID</u>	<u>Tax Parcel ID</u>
<u>47-24,25,31,32,65,23</u>			
<u>48-4,34</u>			
<u>48-11</u>			
<u>48-32,32A,33,6,5</u>			
<u>48-14,15,17,12</u>			

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one:

- ☐ The Landowner is the sole owner of the properties identified herein.
☒ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No

<u>Joni C. Upshaw</u>	<u>Joni C. Upshaw</u>	
<u>EVERETT PICKETT UPSHAW</u>	<u>E.P. Upshaw</u>	<u>4716 CUSTIS MILLBOND RD. WEST POINT, VA 23181</u>
Landowner – Printed Name, Title	Signature	Mailing Address
<u>William C. Upshaw</u>	<u>William C. Upshaw</u>	

Permittee:

Synagro, the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

☐ I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

<u>D. Steve McMahon</u>	<u>D. Steve McMahon</u>	<u>10647 Tidewater Trail</u>
<u>Permittee – Authorized Representative</u>	<u>Signature</u>	<u>Champlain, VA 22438</u>
Printed Name		Mailing Address

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Synagro County or City: KING WILLIAM
Landowner: E.P. URSHAW

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
 - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

 - a. Meat producing livestock shall not be grazed for 30 days,
 - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
 - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

E.P. Ushaw

Landowner's Signature

William C. Ushaw

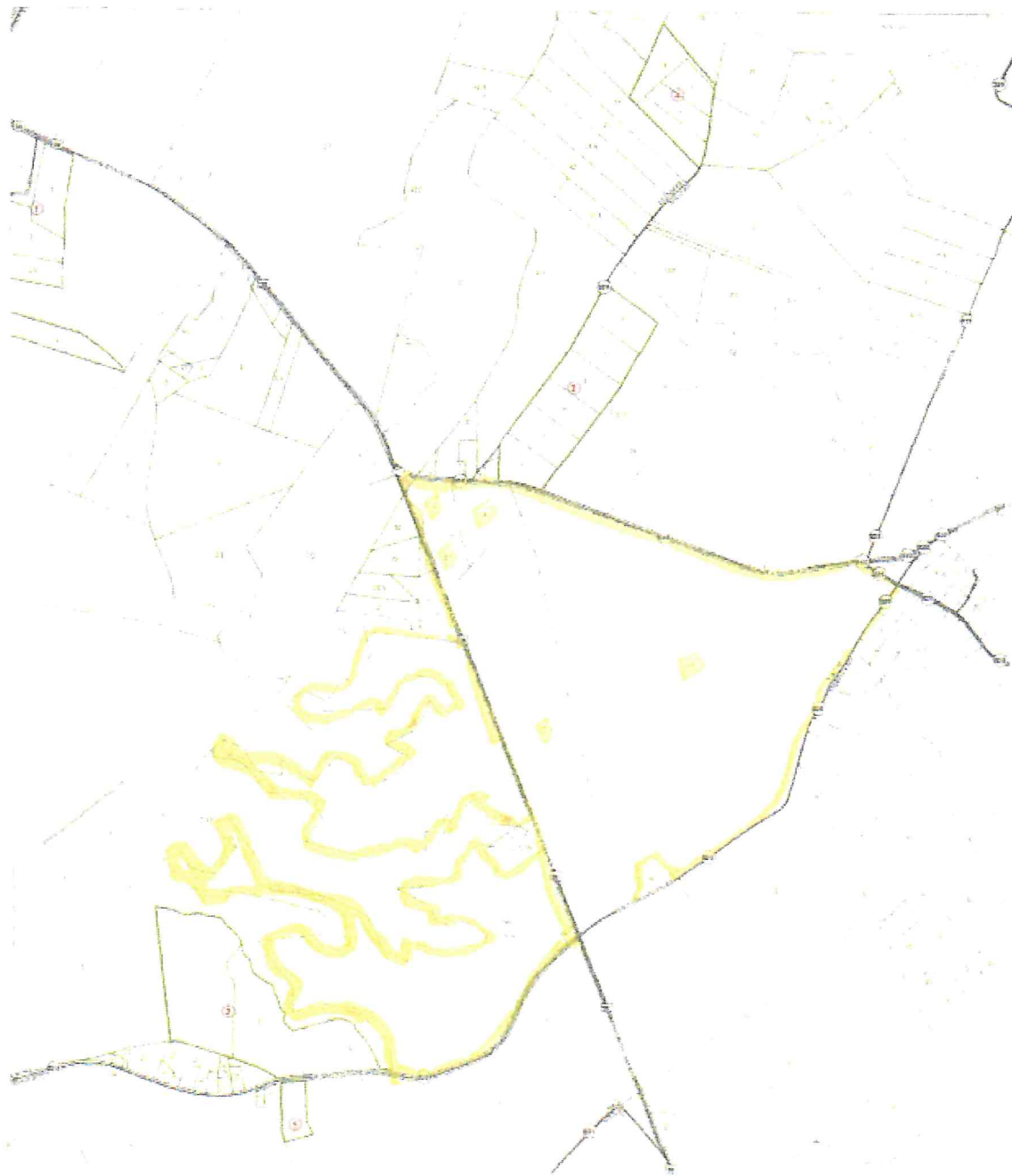
4/15/13
Date



SECTION 47

TAX MAP





TAX MAP



Tax ID Landowner Identification Sheet

Landowner	Field #	Tax ID
Everett Pickett, Joni, & William Upshaw	36 – 01	48 – 11
Everett Pickett, Joni, & William Upshaw	36 – 02	48 – 4
Everett Pickett, Joni, & William Upshaw	36 – 03	48 – 4
Everett Pickett, Joni, & William Upshaw	36 – 04	48 – 12, 14, 15, 17
Everett Pickett, Joni, & William Upshaw	36 – 05	48 – 1, 4, 6
Everett Pickett, Joni, & William Upshaw	36 – 06	48 – 33, 34
Everett Pickett, Joni, & William Upshaw	36 – 07	48 – 32, 32A, 35
Everett Pickett, Joni, & William Upshaw	36 – 08	47 – 65
Everett Pickett, Joni, & William Upshaw	36 – 09	47 – 23-25,31, 65
Everett Pickett, Joni, & William Upshaw	36 – 10	47 – 23

Field #	Latitude (north)	Longitude (west)
36-01	37 ⁰ 38' 17.48"	76 ⁰ 54' 40.27"
36-02	37 ⁰ 38' 34.47"	76 ⁰ 53' 53.19"
36-03	37 ⁰ 38' 23.13"	76 ⁰ 53' 50.32"
36-04	37 ⁰ 37' 48.47"	76 ⁰ 54' 44.25"
36-05	37 ⁰ 38' 34.41"	76 ⁰ 54' 19.08"
36-06	37 ⁰ 38' 14.30"	76 ⁰ 53' 42.48"
36-07	37 ⁰ 38' 53.69"	76 ⁰ 53' 10.12"
36-08	37 ⁰ 38' 19.93"	76 ⁰ 55' 38.20"
36-09	37 ⁰ 38' 34.41"	76 ⁰ 56' 03.55"
36-10	37 ⁰ 38' 14.36"	76 ⁰ 56' 37.29"

MAP LEGEND



House/Dwelling with a well



Rock Outcrop



Well



Lake/Pond



Slope which exceeds 15%



Intermittent Stream



Stream/River



Agricultural/Drainage Ditch



Field boundary




Property Line

Environmentally Sensitive Areas

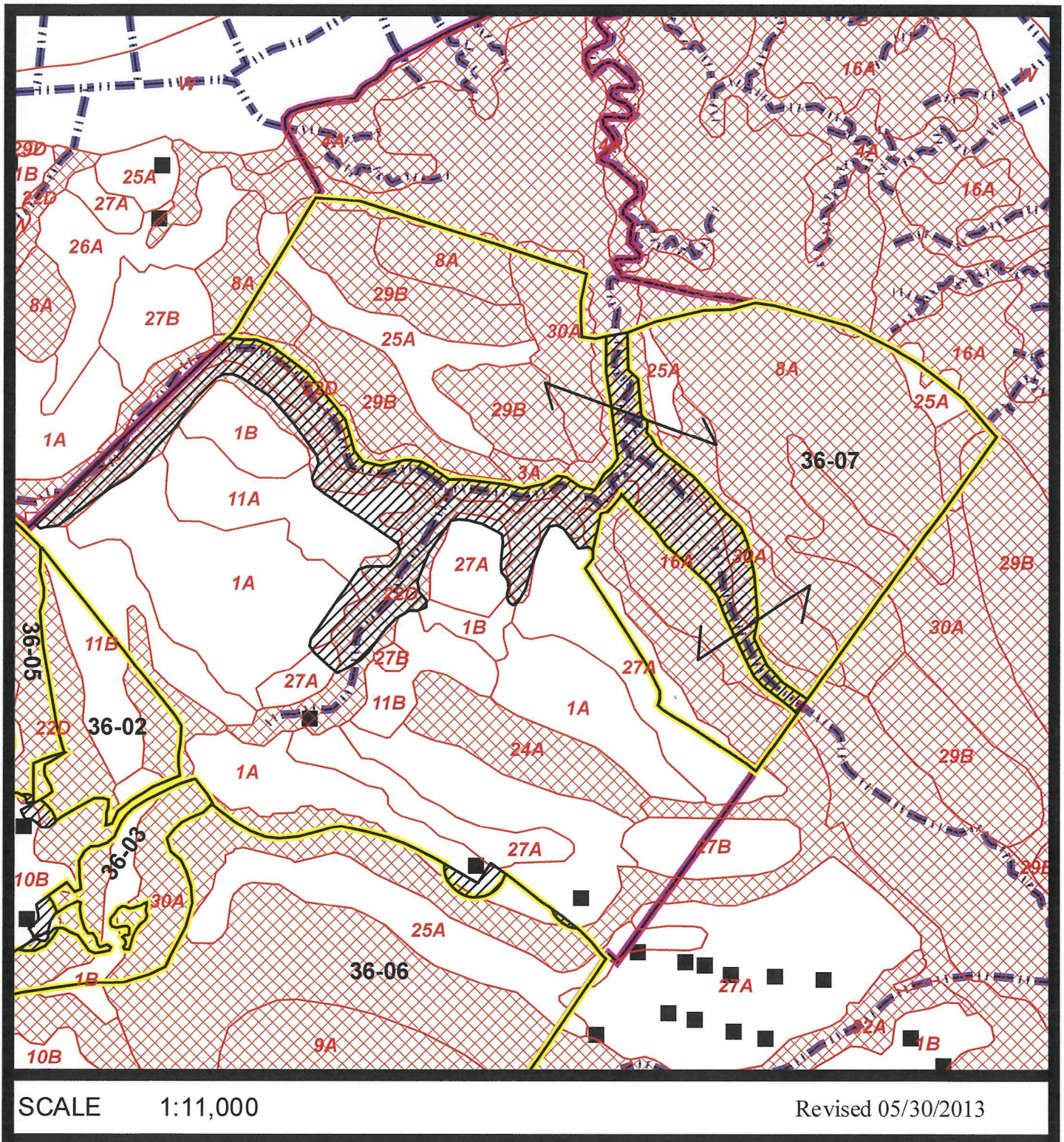
Field	Reason for Sensitive Area
36-01	High Leaching Potential (Map Units 22D, 22F – 20%)
36-02	High Water Table (Map Unit 30A – 17%) High Leaching Potential (Map Unit 22D – 40%)
36-03	High Water Table (Map Unit 30A – 42%) High Leaching Potential (Map Unit 22D – 36%)
36-04	High Water Table (Map Unit 9A – 5%) High Leaching Potential (Map Units 22D, 22F – 44%)
36-05	High Water Table (Map Unit 3A – 5%) Flooded Soils (Map Unit 3A – 5%) High Leaching Potential (Map Units 22D, 22F – 60%)
36-06	High Water Table (Map Units 9A, 30A – 53%) High Leaching Potential (Map Unit 22D – 19%)
36-07	High Water Table (Map Units 16A, 30A – 34%) Flooded Soils (Map Unit 16A – 12%) Poor Drainage (Map Unit 16A – 12%) High Leaching Potential (Map Units 8A, 22D, 29B – 58%)
36-08	High Water Table (Map Unit 9A – 7%) High Leaching Potential (Map Unit 22F – 15%)
36-09	High Water Table (Map Unit 9A – 22%) High Leaching Potential (Map Unit 22D – 8%)
36-10	High Leaching Potential (Map Unit 22F – 17%)

King William County Soils that are Environmentally Sensitive


Soil Map Unit	Series Name	Time of year		Environmental
		High Water	Flooded	
3A	Bibb/Kinston	Nov – June	Nov – June	Drainage
4A	Bohicket	Nov – June	Nov – June	
5A	Bojac	Jan – Dec		Leaching
6A, 6B	Bojac			Leaching
7A	Catpoint			Leaching
8A	Conetoe			Leaching
9A	Daleville	Nov – May		
14A	Kenansville			Leaching
15A	Lanexa	Jan – Dec	Jan – Dec	Drainage
16A	Mattan	Jan – Dec	Jan – Dec	Drainage
18A	Myatt	Nov – April		
20A	Osier	Nov – March		Drainage
22D, 22F	Remlik/Nevarc			Leaching
23A	Riverview		Dec – March	
24A	Roanoke	Nov – May		
29B, 29D, 29F	Tarboro			Leaching
30A	Tomotley	Nov – April		
32A	Wehadkee	Nov – May	Nov – May	

 Environmentally Sensitive Areas

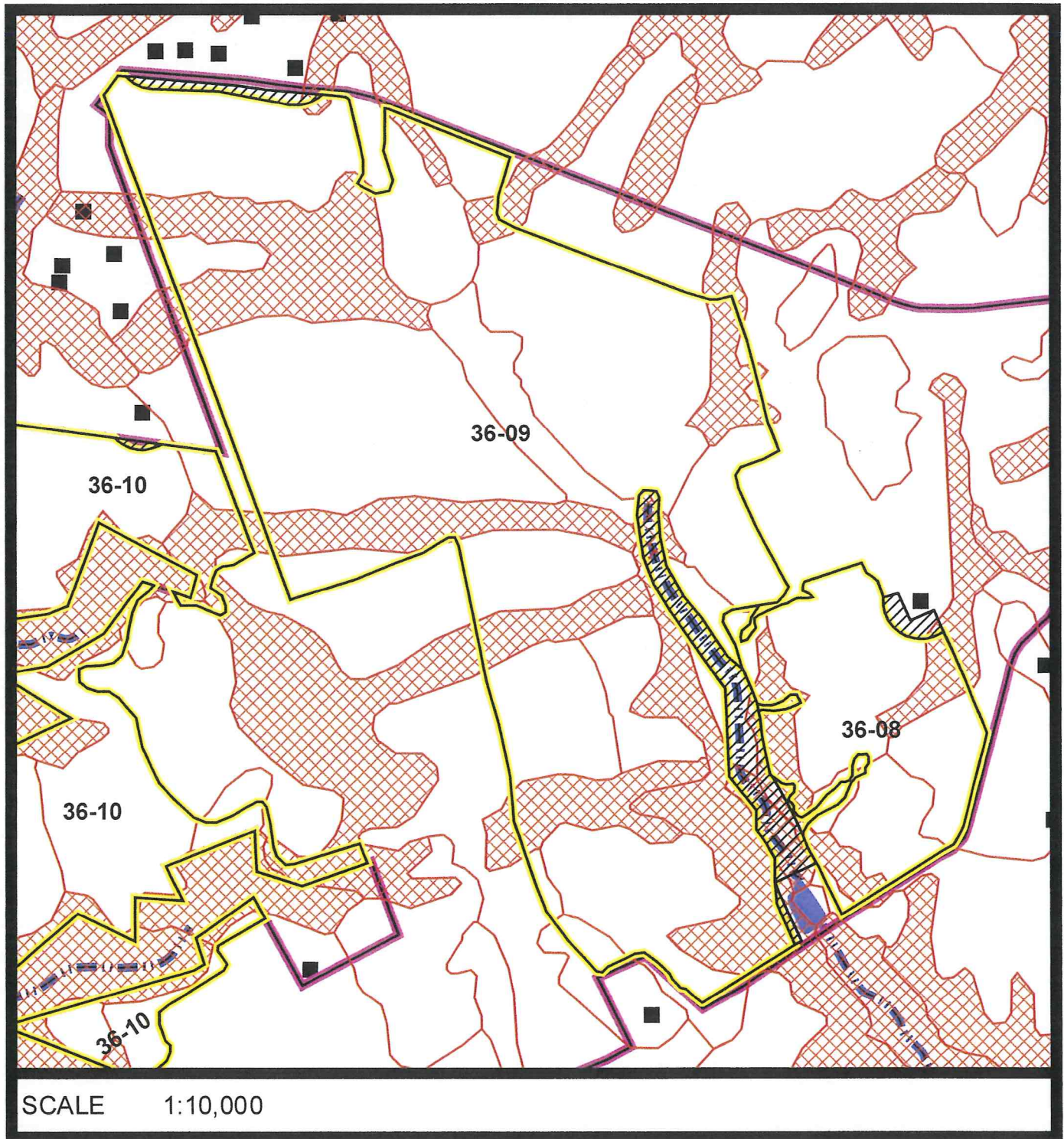
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SOIL MAP

 Environmentally Sensitive Areas

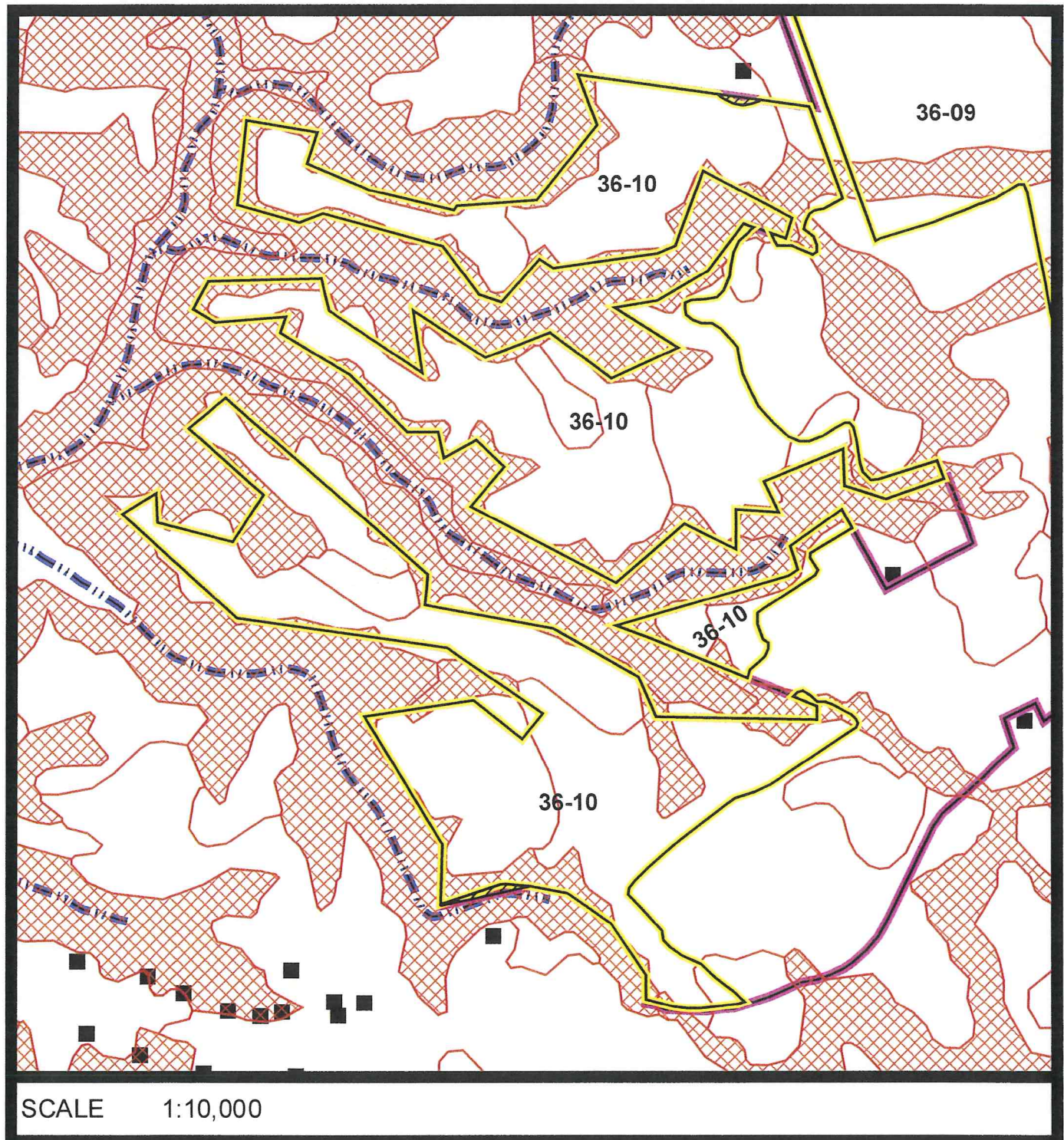




SOIL MAP

 Environmentally Sensitive Areas

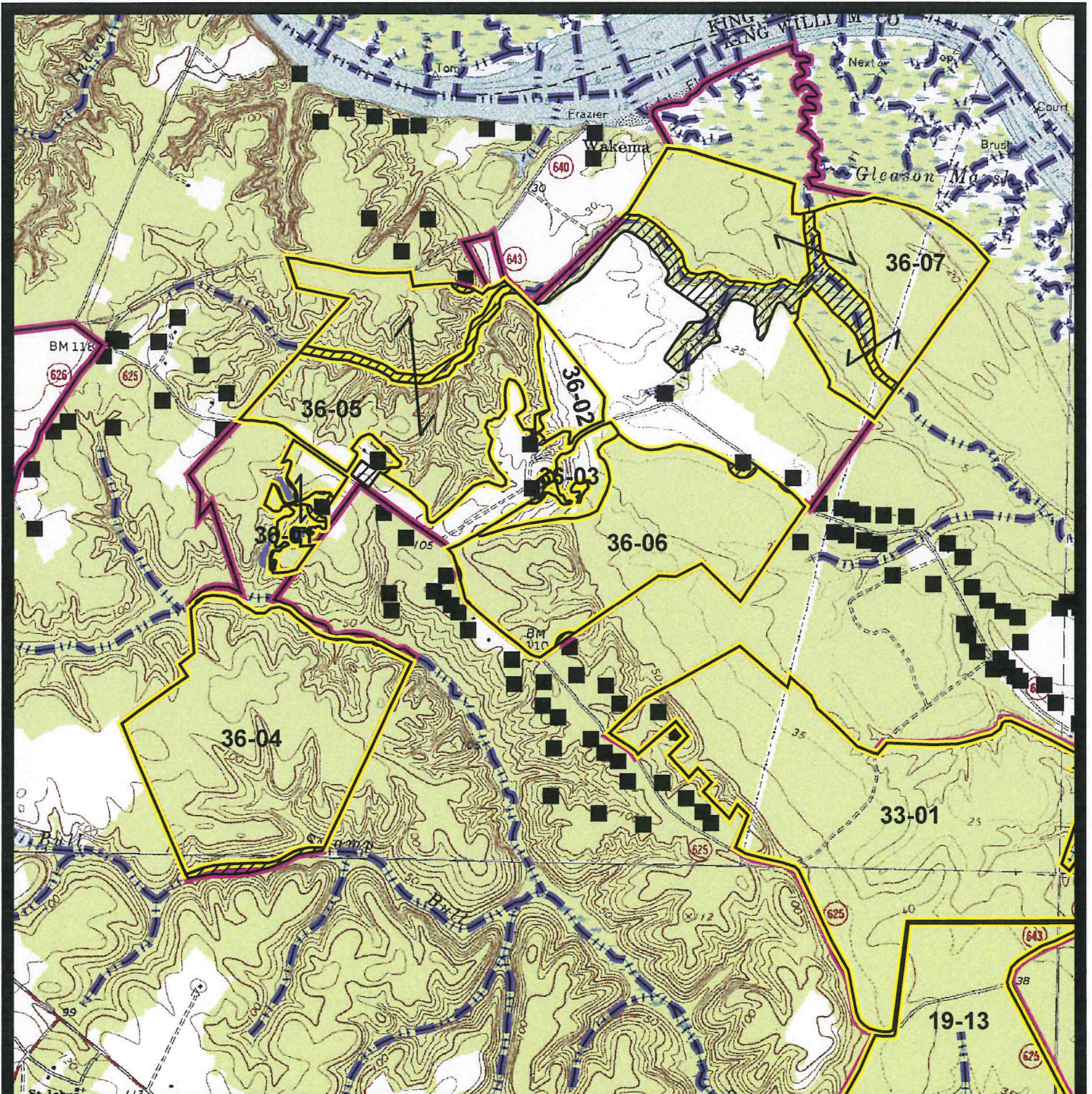
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SOIL MAP

 Environmentally Sensitive Areas

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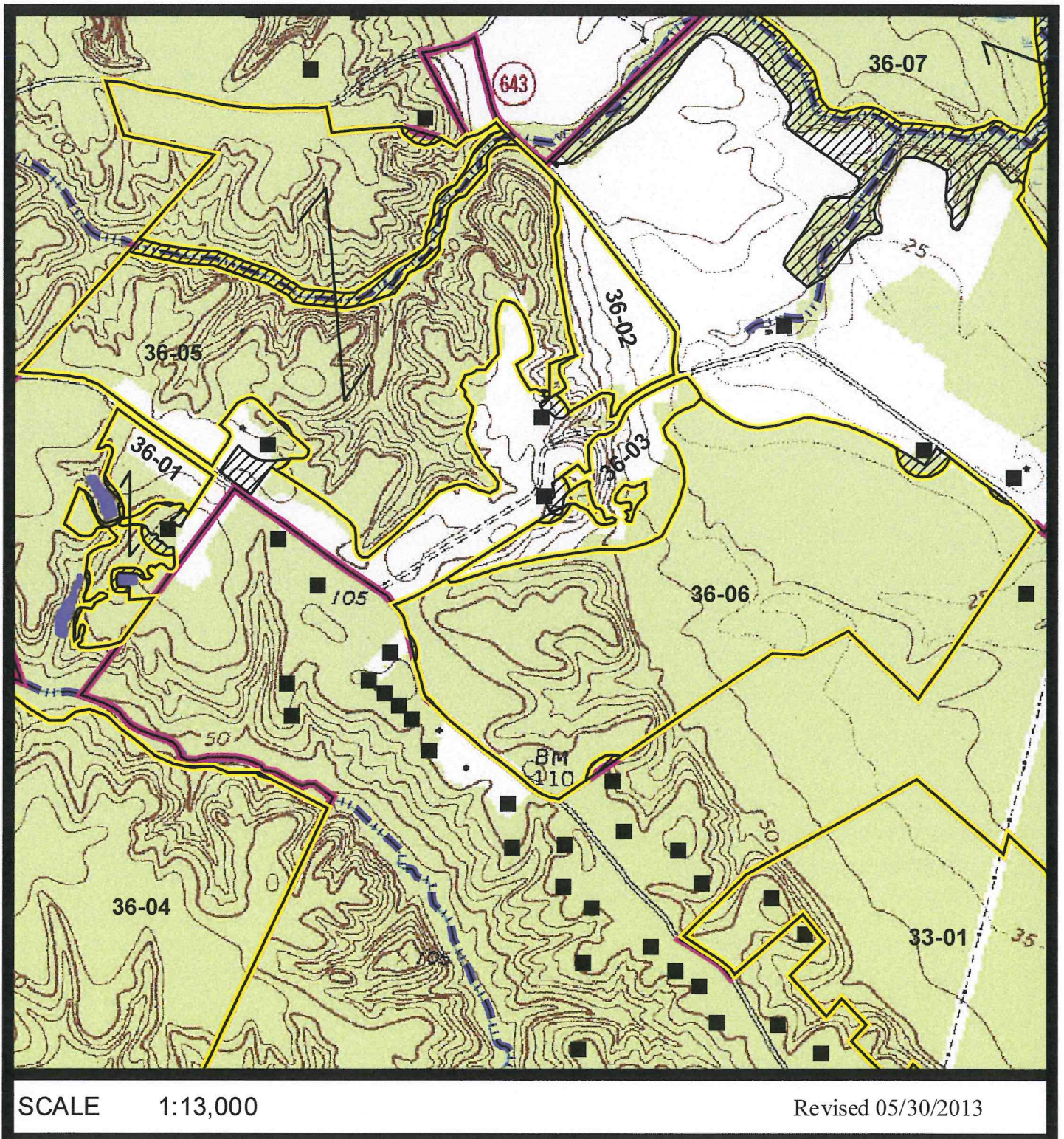


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Revised 05/30/2013

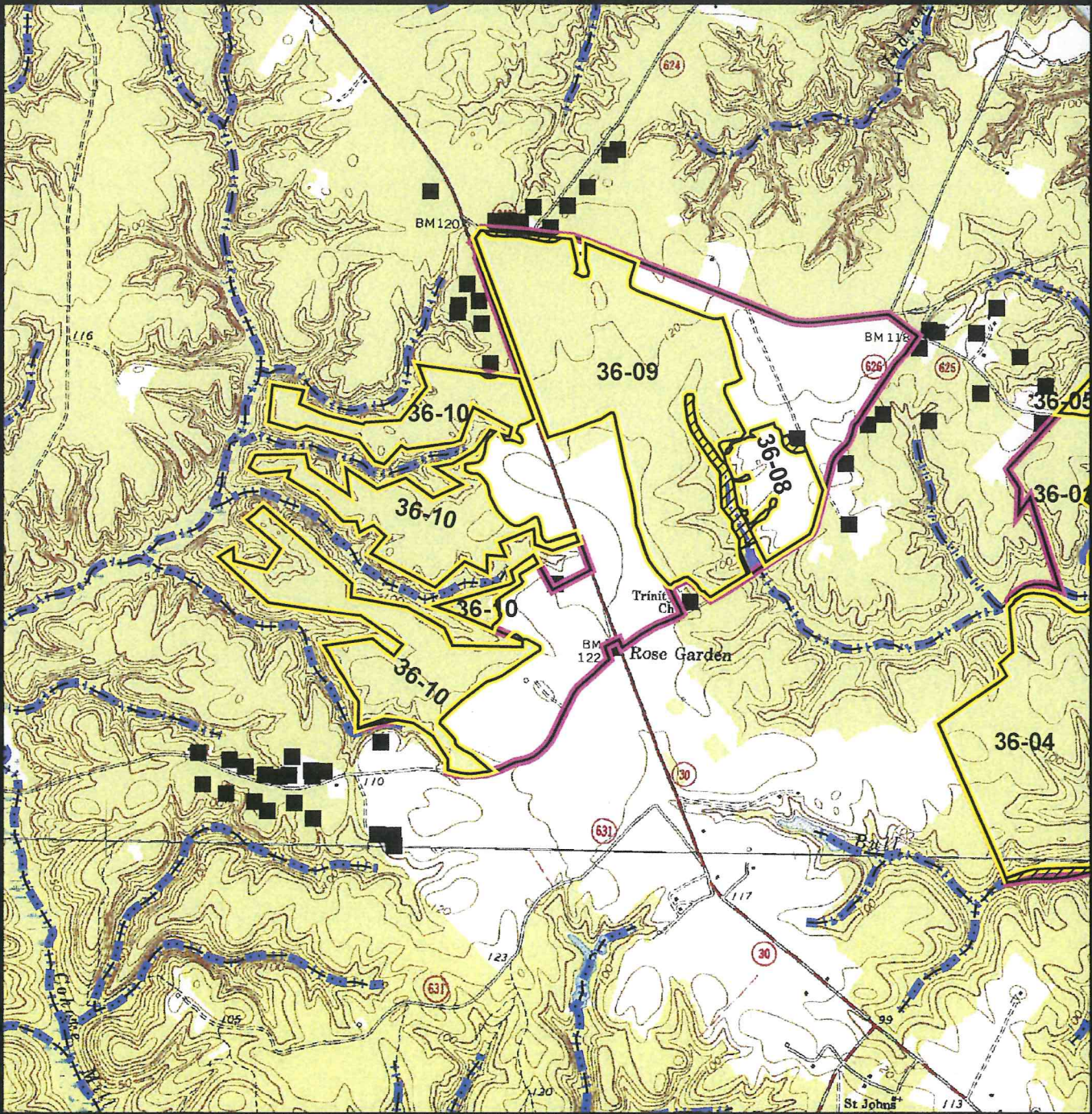
TOPO MAP





TOPO MAP

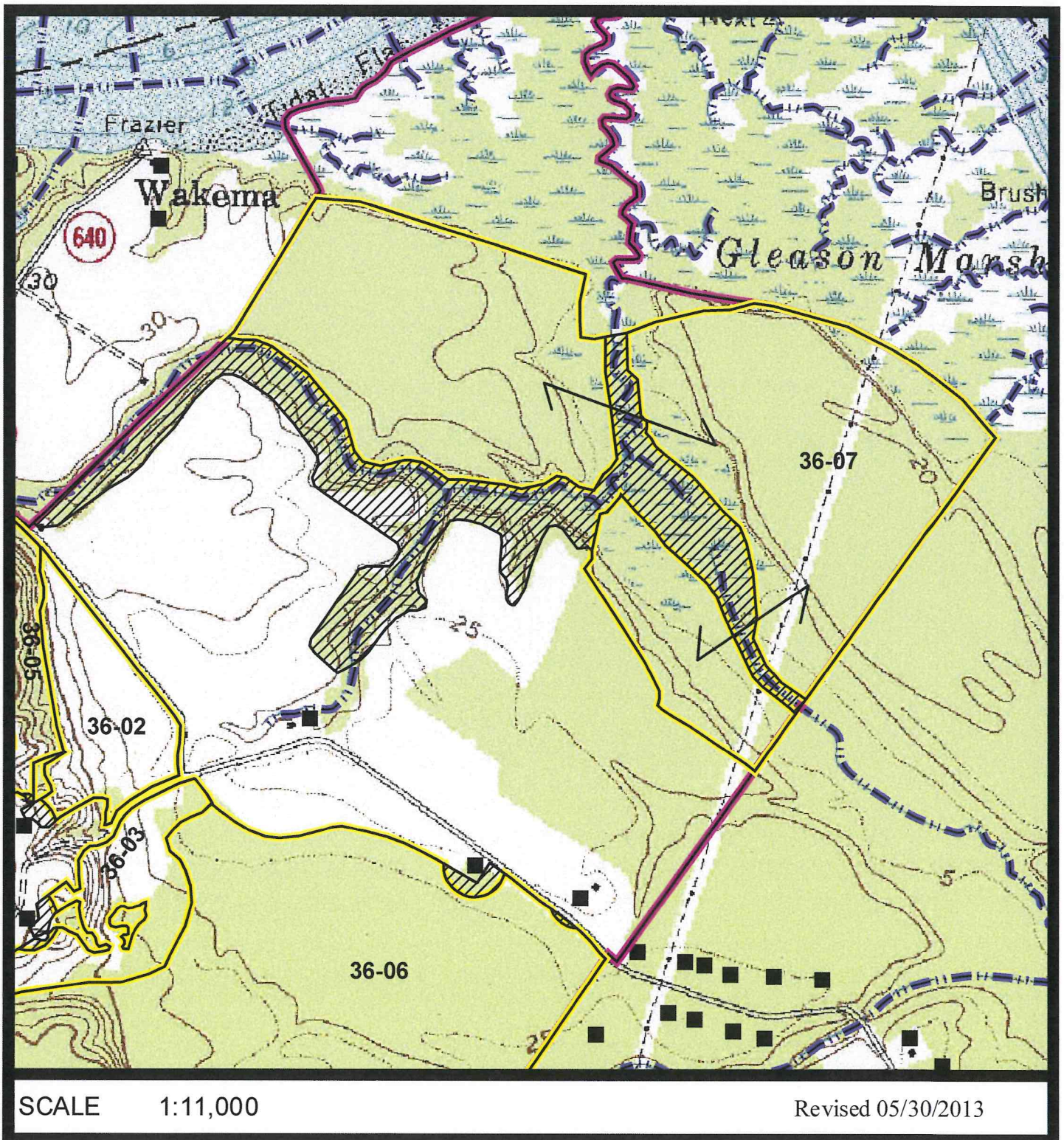




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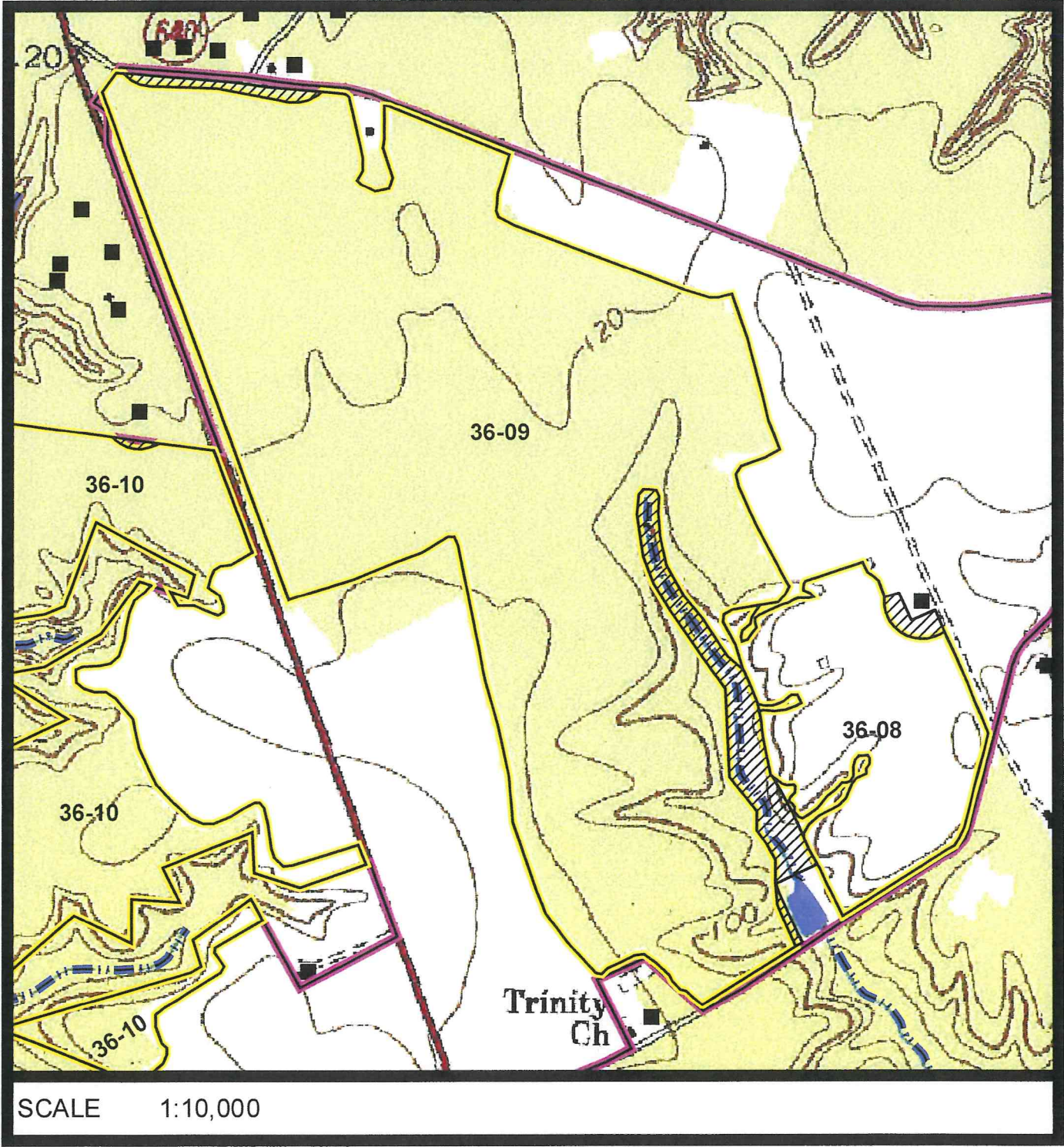
TOPO MAP





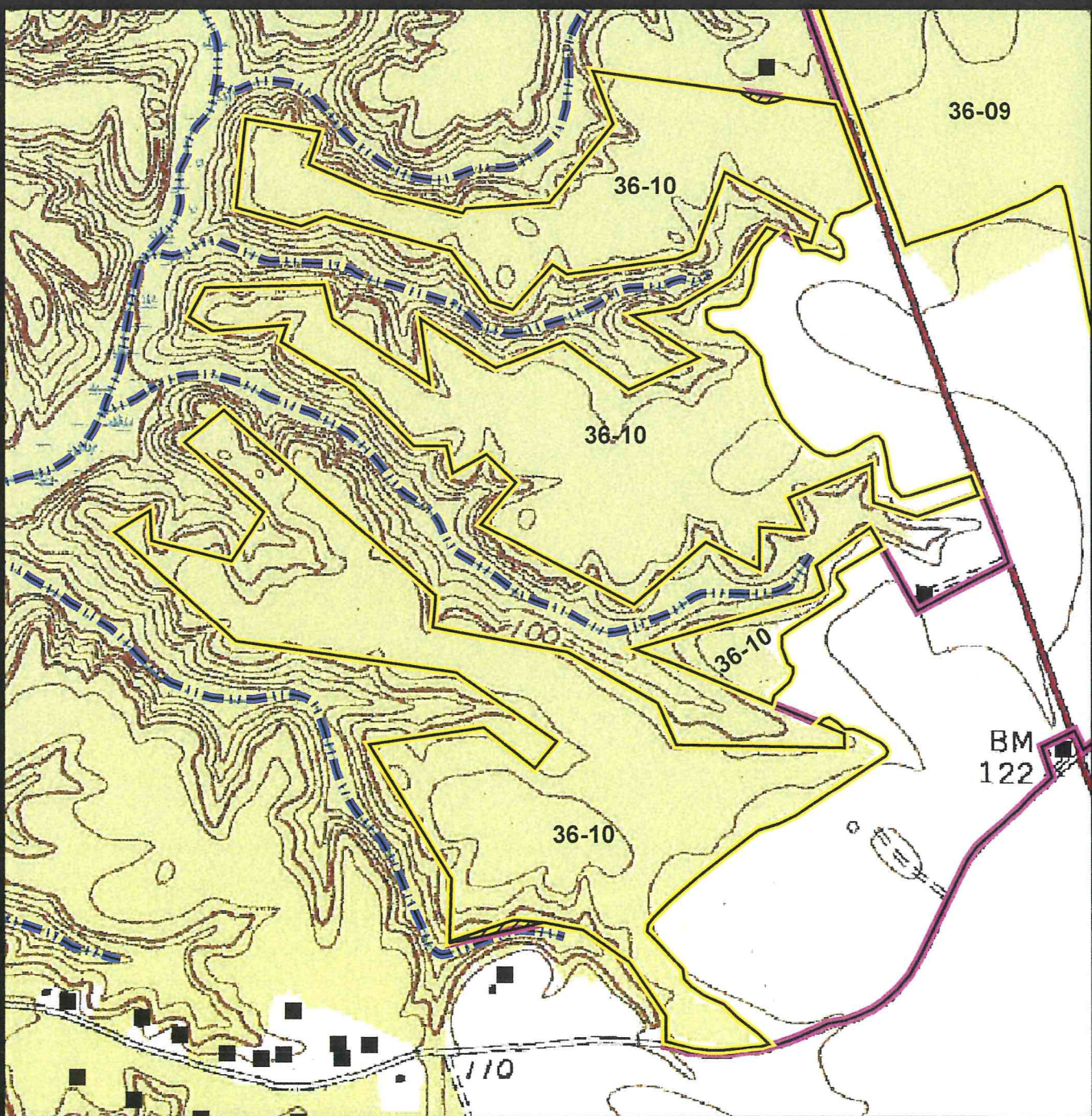
TOPO MAP





TOPO MAP

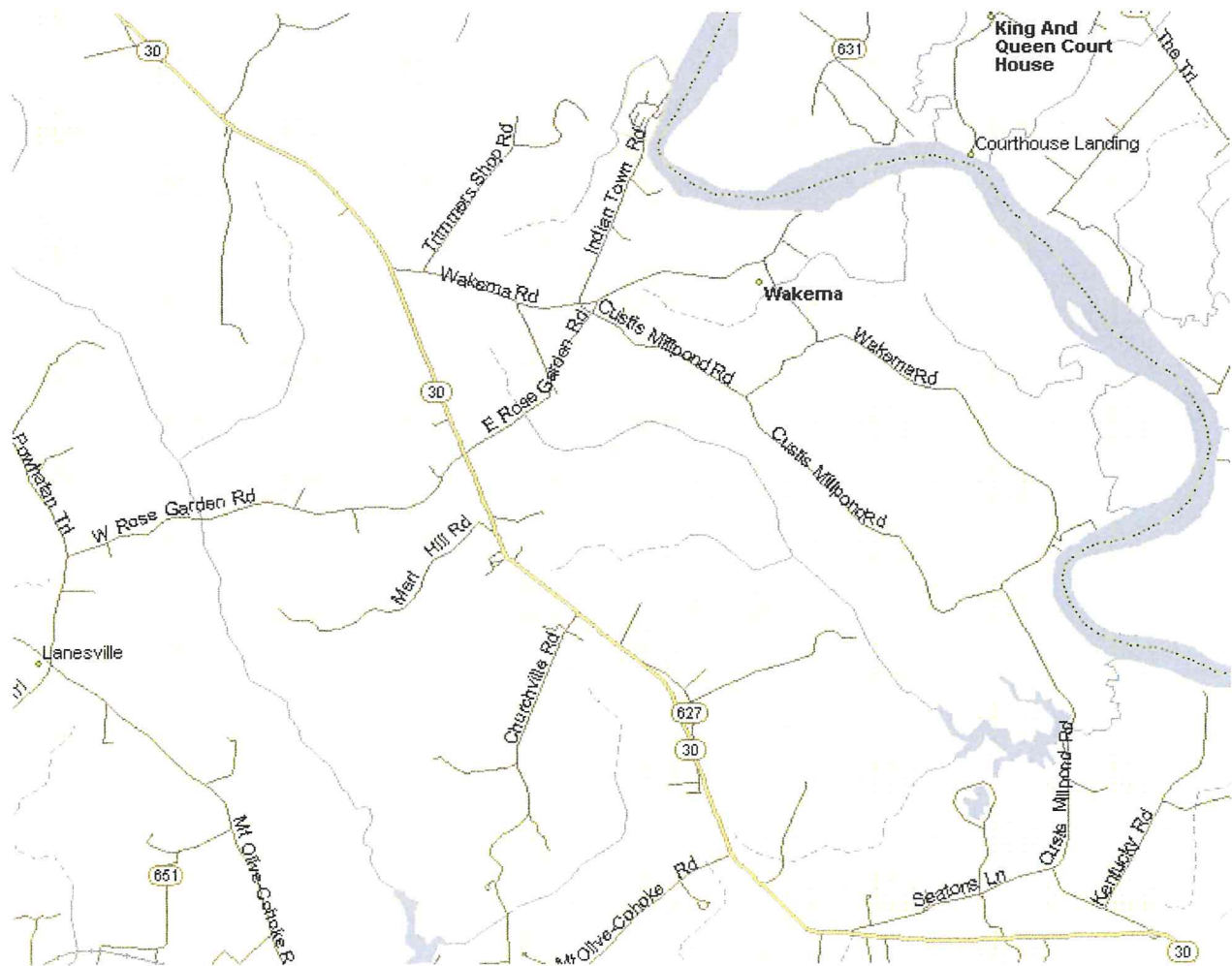




SCALE 1:10,000

TOPO MAP





LOCATION MAP

